

SPECIFICATION FOR APPROVAL

<p>CUSTOMER'S APPROVAL CHOP</p> <p>Approval's condition: _____</p> <p>Approved date: _____</p>
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KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME: _____

CUSTOMER'S MODEL NO. : _____

CUSTOMER'S PART NO. : _____

DESCRIPTION:

Molding SMD Power Inductors

Semitel'S MODEL NO. :

SMTLVR11047-80NM-BA

VERSION:

A

DATE:

2026/3/17

Attachments:

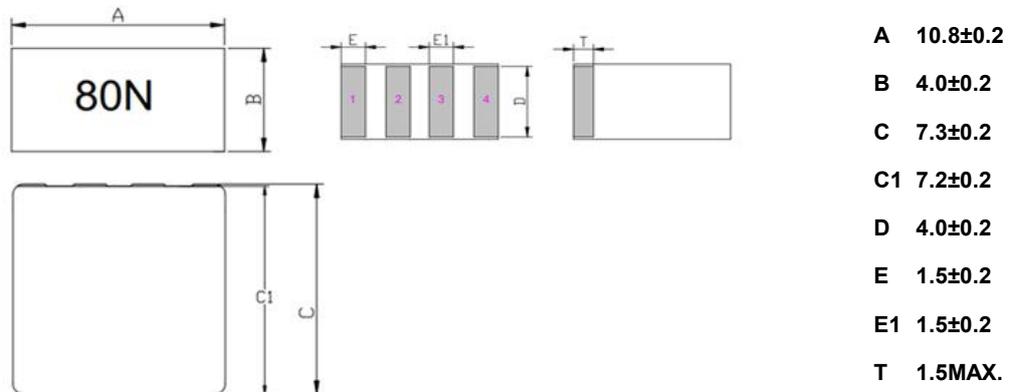
- Product specification
- Sample Qty.:
- Test data

Prepared By	Checked By	Approved By
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Semitel International Ltd.,	TEL: 886-2-86922121 FAX: 886-2-26483379
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Product Specification

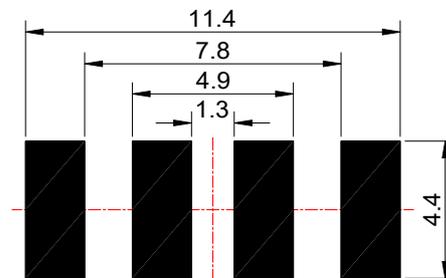
1.Physical Dimensions (Unit:mm)



2.Schematic



3.Recommend Land Pattern Dimensions



4. Electrical Characteristics

OCL	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L(nH)±20%	DCR (mΩ)	Isat (A)	Irms (A)
	1MHz,1V	MAX(TYP)	MAX(TYP)	MAX(TYP)
1-4	80	0.160(0.130)	105(120)	62.0(69.0)
2-3	80	0.60(0.450)	105(120)	32.0(37.0)

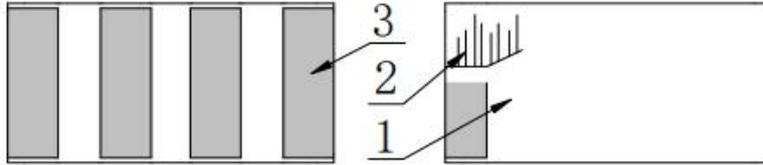
Note:

- (1). All test data is referenced to 25°C ambient.
- (2). Test the original current conditions: 1MHz, 1Vrms , Add bias current test condition: 100KHz,1.0Vrms
- (3). Operating temperature range - 55°C to + 125°C
- (4). Rated current: Isat or Irms, whichever is smaller
- (5). Isat (A):DC current at which the inductance drops approximate 30% TYP from its value without current
- (6). Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from 25°C ambient
- (7). L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source
- (7). DCR tested by Milli-ohm meter
- (8). Absolute maximum voltage 50VDC.

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5. Material list

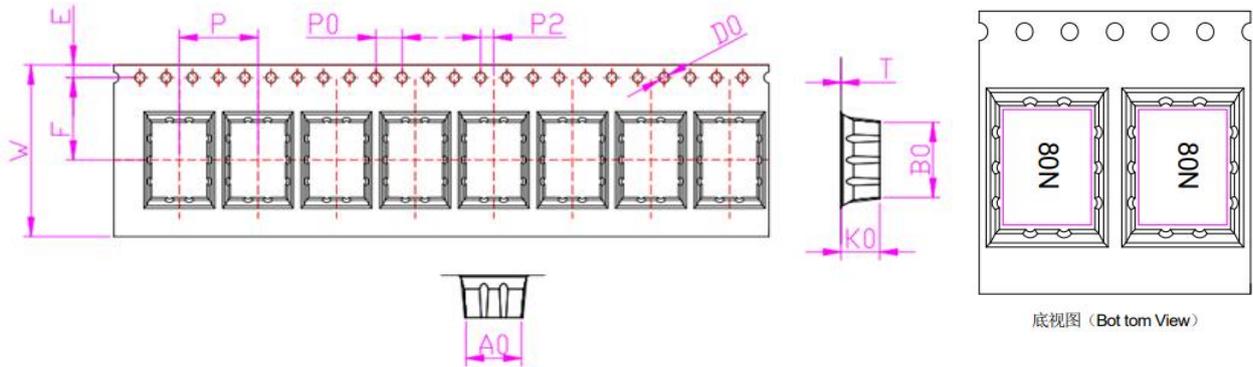


No	Item	Material
1	Core	Composite powder
2	Wire	Copper sheet
3	Base	Tinned copper
Surface spray paint treatment gray		

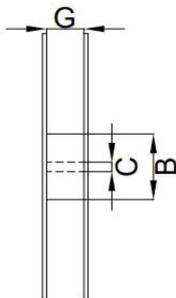
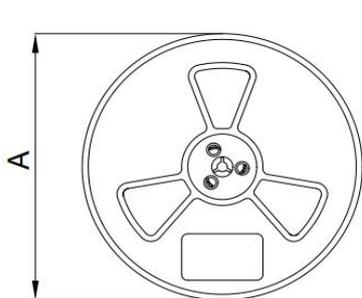
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6.Packing Request



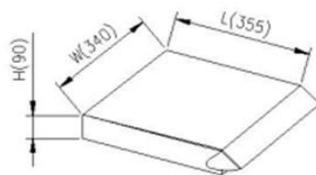
Carrier Tape Dimensions (mm)										
W	A0	B0	K0	P	F	E	D0	P0	P2	T
24.0±0.3	4.4±0.1	11.2±0.1	7.7±0.1	16.0±0.1	11.5±0.1	1.75±0.1	1.5±0.1	4.0±0.1	2.0±0.05	0.5TYP



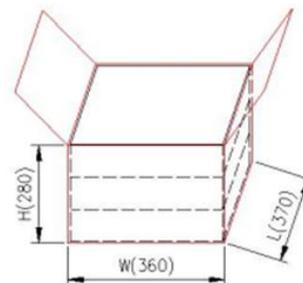
REEL SPEC	13"
A±1.0	330
B±1.0	100
C±0.50	13.2
G±0.20	24.5



13" 500PCS



Small carton: 1000PCS



Outer carton: 3000PCS

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